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101 [A modified CDMA/PRMA medium access control protocol for integrated services in LEO satellite systems](#)



Abbas Ibrahim, Samir Tohme

August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia****Publisher:** ACM PressFull text available: [pdf\(600.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this paper is the design of a multiservice MAC (Medium Access Control) layer able to use efficiently the radio channel within a LEO (Low Earth Orbit) constellation. After presenting the context of the problem, a set of capabilities within MAC layer, which provide communications able to support various applications such as video, data and voice, are defined. A new MAC protocol, based on the CDMA/PRMA one, is proposed in the context of LEO systems. Compared with the initial CDMA/P ...

Keywords: CAC, CDMA, LEO, MAC, PRMA, statistical multiplexing

102 [Video staging: a proxy-server-based approach to end-to-end video delivery over wide-area networks](#)



Zhi-Li Zhang, Yuewei Wang, David H. C. Du, Dongli Shu

August 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 4**Publisher:** IEEE PressFull text available: [pdf\(432.53 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: MPEG, end-to-end video delivery, heterogeneous networking environment, proxy server, video smoothing, video staging, video streaming

103 [Demand assignment control in a satellite switched CDMA network](#)



Diakoumis Gerakoulis


July 2000 **International Journal of Network Management**, Volume 10 Issue 4**Publisher:** John Wiley & Sons, Inc.Full text available: [pdf\(443.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Satellite Switched Code Division Multiple Access ∥SS-CDMA∥ is a system proposed for geostationary satellite fixed service communications and provides both multiple access and switching to a multibeam satellite. Multiple access is achieved by space, frequency and code division while the switching function is based on code division


methods. In this article, we present an overview of the system architecture, focus on the demand assignment control mechanism and describe the ...

104 Optical hierarchical fully shuffled tree



 Safia H. Deif, Omer Karam, Samir Shaheen, Abd El-Monein Y. Balil
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2**

Publisher: ACM Press

Full text available:  [pdf\(669.21 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: dynamic allocation, multi-hop, optical hierarchical fully shuffled tree, optical interconnection network, parallel procesing, single-hop, static wavelength allocation, wavelength division multiple access (WDMA)

105 Signal design and system operation of Globalstar versus IS-95 CDMA—similarities and differences



Leonard Schiff, A. Chockalingam
January 2000 **Wireless Networks**, Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(273.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The GlobalstarTM system provides telephone and data services to and from mobile and fixed users in the area between ± 70 degrees latitude. Connection between user terminals and the PSTN is established through fixed terrestrial gateways via a constellation of low earth orbiting ∥LEO∥ satellites. Globalstar uses an extension of the IS‐95 CDMA standard that is used in terrestrial digital cellular systems. The LEO satellite link is ...

106 The transport layer: tutorial and survey



 Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(261.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing terms](#), [index terms](#)

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables. < ...


Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

107 An integrated congestion management architecture for Internet hosts



 Hari Balakrishnan, Hariharan S. Rahul, Srinivasan Seshan
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99**, Volume 29 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing terms](#), [index terms](#)

This paper presents a novel framework for managing network congestion from an end-to-end perspective. Our work is motivated by trends in traffic patterns that threaten the long-term stability of the Internet. These trends include the use of multiple independent


concurrent flows by Web applications and the increasing use of transport protocols and applications that do not adapt to congestion. We present an end-system architecture centered around a Congestion Manager (CM) that ensures proper conge ...

108 Promoting the use of end-to-end congestion control in the Internet

Sally Floyd, Kevin Fall


August 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 4

Publisher: IEEE Press

Full text available:  [pdf\(172.69 KB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)



109 Supporting CORBA applications in a mobile environment

 Mads Haahr, Raymond Cunningham, Vinny Cahill

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available:  [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)



110 Accelerating telnet performance in wireless networks

 Barron Housel, Ian Shields

August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access**

Publisher: ACM Press

Full text available:  [pdf\(933.49 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)




Keywords: caching, compression, data reduction, emulation, mobile, sessions, telnet, wireless

111 High availability path design in ring-based optimal networks

Wayne D. Grover


August 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 4

Publisher: IEEE Press

Full text available:  [pdf\(308.91 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



112 Papers: Return link optimization for internet service provision using DVB-S networks

 Nihal K. G. Samaraweera

July 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)

Satellite based Digital Video Broadcasting (DVB-S) allows the same low cost satellite dish to receive both television programs and Internet traffic. The satellite system is used to construct a high-speed simplex distribution system, while the return path, needed for the Internet service will be provided using a low speed terrestrial network. The bandwidth asymmetry between the return and forward paths results in a problem, which we have termed "ACK congestion". A number of techniques that may al ...




113 Multibeam cellular communication systems with dynamic channel assignment across multiple sectors

Jung-Lin Pan, Stephen S. Rappaport, Petar M. Djuric

July 1999 **Wireless Networks**, Volume 5 Issue 4



Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(240.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In cellular communication systems, directional multibeam antennas at cell sites can be used to reduce co-channel interference, increase frequency reuse and improve system capacity. When combined with dynamic channel assignment (DCA), additional improvement is possible. We propose a multibeam scheme using dynamic channel assignment across multiple sectors. A cell is divided into several sectors, each of which is covered by several directional beams. Specific channels are allocated to each se ...

114 Business: the 8th Layer: the 'Big Pipe' theory of network integration



 Kate Gerwig
November 1998 **netWorker**, Volume 2 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(298.45 KB\)](#) Additional Information: [full citation](#), [index terms](#)

115 NetNews: satellites: the new bandwidth-busters?



 Dennis Fowler
November 1998 **netWorker**, Volume 2 Issue 5

Publisher: ACM Press


Full text available:  [pdf\(234.01 KB\)](#) Additional Information: [full citation](#), [index terms](#)

116 Scalable QoS provision through buffer management



 R. Guérin, S. Kamat, V. Peris, R. Rajan
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '98**, Volume 28 Issue 4

Publisher: ACM Press


Full text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, a number of link scheduling algorithms have been proposed that greatly improve upon traditional FIFO scheduling in being able to assure rate and delay bounds for individual sessions. However, they cannot be easily deployed in a backbone environment with thousands of sessions, as their complexity increases with the number of sessions. In this paper, we propose and analyze an approach that uses a simple buffer management scheme to provide rate guarantees to individual flows (or to ...

Keywords: buffer management, fairness, rate guarantees, scheduling, sharing

117 The case for services over cascaded networks



 Anthony D. Joseph, B. R. Badrinath, Randy H. Katz
October 1998 **Proceedings of the 1st ACM international workshop on Wireless mobile multimedia**

Publisher: ACM Press


Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

118 Comparative analysis of wireless ATM channel access protocols supporting multimedia traffic



Jyh-Cheng Chen, Krishna M. Sivalingam, Raj Acharya
September 1998 **Mobile Networks and Applications**, Volume 3 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(256.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Extension of multimedia services and applications offered by ATM networks to wireless and mobile users has captured a lot of recent research attention. Research prototyping of wireless ATM networks is currently underway at many leading research and academic institutions. Various architectures have been proposed depending on the intended application domain. Successful implementation of wireless connectivity to ATM services is significantly dependent on the medium access control (MAC) protocol ...

119 Transporting voice traffic over packet networks

Larry Greenstein

July 1998 **International Journal of Network Management**, Volume 8 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(201.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


POTS networks are being rapidly superseded by newer, packet-based ones, which allows a greater facility for voice traffic. This article explores the practical issues involved in deploying voice networks over ATM, frame relay and IP. © 1998 by John Wiley & Sons, Ltd.

120 Hierarchically-organized, multihop mobile wireless networks for quality-of-service support

Ram Ramanathan, Martha Steenstrup

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(429.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

MMWN is a modular system of adaptive link- and network-layer algorithms that provides a foundation on which to build mechanisms for quality-of-service provision in large, multihop mobile wireless networks. Such networks are a practical means for creating a communications infrastructure where none yet exists or where the previously existing infrastructure has been severely damaged. These networks provide communications for such diverse purposes as tactical maneuvering and strategic planning ...

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